Course Profile

Course Name:-	**Design and Web Programming**
Course Code:-	**CEN 300/CEN 218**
Academic Year:-	**2013-2014**
Semester:-	**Second**

Course Overview

This course is introducing the following topics-: Introduction to Web Technologies: Brief introduction to WWW, Components of Web Technologies (Web Server, Mail Server, Web Browser etc.), Static and Dynamic Websites, Client Browser Configuration.-Introduction to HTML: Evolution of Markup Languages, Introduction to HTML Document Structure, HTML tags (Basic Tags, Formatting Tags, Creating Hyperlink, Images, Frames, Tables and Forms), Cascaded Style Sheets(CSS) and it's applications, using cascaded style sheets with HTML.DHTML:DHTML role and benefits, creating interactive web pages using DHTML. Java Script Overview of Java Script Language, Java Script Data types, Variables, Control Structures, Primitive Operations, Objects etc., Using Java Script for validations, Event Handling, Using java script for input validations.

Course Details	
Level:-	7(CEN 300)-Old Plan, 6(CEN 218)-New Plan
Credit:-	3(2-0-2)
Pre-Requisites:-	CEN 110(Old Plan), CEN 212(New Plan)
Co- Requisites:-	

Learning Outcomes of Course

After successful completion of this course, student will be able to-

1. Give the student an overview of the Web platform.
2. Students will understand the fundamentals of Internet Technology
3. Understand the Internet security issues and implement client requirements.

4. They will be able to understand the basic Internet services, design and publish simple web sites.
5. To understand the client-side web programming and its techniques.
6. Expand your understanding of JavaScript language to be able to program sophisticated client-side validation routines.
7. To be able to program moderately complex interactive client side website.

Course Assessment

Name of Assessment Task	Weight of Assessment	Week Due
1. Midterm Exam-1	15%	
2. Midterm Exam-2	15%	
3. Quizzes, Assignments	10%	
4. Laboratory Assessment	20%	
5. Final Exam	40%	

Assessment Task and Learning Outcomes Alignment

Assessment Task Name	Course Learning Outcomes						
	1	2	3	4	5	6	7
1. Midterm Exam-1	√	√		√			
2. Midterm Exam-2			√	√	√	√	
3. Quizzes	√			√		√	
4. Assignments		√			√		√
5. Laboratory Assessment	√			√	√	√	√
6. Final Exam	√	√	√	√	√	√	√

Teaching Contact Details

Name of Course Coordinator:-	Ahsan Ahmed
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Lab/Tutorial Instructor:-	Abdullah Alenizi
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Office Hours:-	MONDAY: 09:00 AM - 11:00 AM
Office Number:-	R-11, First Floor, CCIS Building
Office Phone Number:-	00966-16404-2536

Details of Required Text Book

Book Name	Authors Name	Publisher	Year	Edition
The Ultimate HTML REFERENCE	Ian Lloyd	SitePoint	2008	
JavaScript and DHTML Cookbook	Danny Goodman	O'Reilly	2007	2nd

Details of Required Reference Books

Book Name	Authors Name	Publisher	Year	Edition
Introduction to Web Development using HTML 5	Dr. Kris Jamsa	Jones & Bartlett Learning	2013	
The Complete Reference	Thomas A. Powell	Mc-Graw Hill	1999	2nd
HTML & CSS: The Complete Reference	Thomas A. Powell	Mc-Graw Hill	2010	5th

IT Resources

The following IT Resources will require to access-

- Web References and downloads:
  - http://www.w3schools.com/
  - http://www.apachefriends.org/en/xampp.html
  - http://validator.w3.org/
- Faculty Website: http://faculty.mu.edu.sa/a.ahmed
- College Computer Laboratory for Practical Implementation

Course Schedule

Course Topics	Book's Chapter	Event Name	Week Due
Introduction to Web Technologies: Brief introduction	HTML: THE COMPLETE		Week-1

to WWW.	REFERENCE Chapter-2 Web Development Overview		
Components of Web Technologies (Web Server, Mail Server, Web Browser etc.), Static and Dynamic Websites, Client Browser Configuration.	Introduction to Web Development using HTML 5, Chapter 1- Getting started with HTML	Assignment-1 Announced	Week-2
Introduction to HTML: Evolution of Markup Languages, Introduction to HTML Document Structure, HTML tags -Basic Tags,	The Ultimate HTML REFERENCE Chapter-2,3-Head Elements, Structural Elements	Assignment-1 Due (to be submitted at the beginning of this class)	Week-3
Formatting Tags, Creating Hyperlink, Images.	The Ultimate HTML REFERENCE Chapter-5,7- Text Formatting Elements, Images and Media Elements	Quiz-1	Week-4
Frames, Tables and Forms,	The Ultimate HTML REFERENCE Chapter-6,8,9- Form Elements, table elements, Frame and windows Elements		Week-5
		First Midterm Exam Date and Time: TBA	Week-6
Cascaded Style Sheets(CSS) , applications of CSS			Week-7
Using cascaded style sheets with HTML	HTML & CSS: THE COMPLETE REFERENCE, Chapter 5,6- CSS Syntax and Property reference, CSS3 Proprietary and Emerging Features reference		Week-8
DHTML role and benefits, creating interactive web pages using DHTML	HTML: THE COMPLETE REFERENCE Chapter-13 Introduction to JavaScript and DHTML	Quiz-2	Week-9
Java Script Overview of Java Script Language, Java Script Data types, Variables,	JavaScript and DHTML Cookbook, Chapter 4- variables,	Assignment-2	Week-10

	functions and flow control	Announced	
Control Structures, Primitive Operations, Objects etc.	JavaScript and DHTML Cookbook, Chapter 2,3- Numbers and Dates, Arrays and Objects	Assignment-2 Due (to be submitted at the beginning of this class) Assignment-3 Announced	Week-11
		Second Midterm Exam Date and Time: TBA	Week-12
Using Java Script for validations, Event Handling	Introduction to Web Development using HTML 5, Chapter 10- JavaScript	Quiz-3	Week-13
Using java script for input validations.	Introduction to Web Development using HTML 5, Chapter 10- JavaScript	Assignment-3 Due (to be submitted at the beginning of this class)	Week-14
		Final Exam Date and Time: TBA	Exam Week

Referencing Style

The **American Psychological Association (APA)** referencing style must be use for all submissions of this course.

Course Assessment Task

Assessment Name:-	**Midterm Exam-1**
Description of Task Assessment:-	This assessment is aligned to learning outcomes 1, 2 and 4. In that regard, the assignment contains questions that assess: 1) Overview of the Web platform and web environment, 2) Fundamentals of Internet Technology, 4) Understanding the basic Internet services, design and publish simple web sites.

Task Assessment Due Week/Date:-	**Week 6**
Return Week/Date to Students:-	Week 7 (Evaluated copies will be shown to students)
Weight of Task Assessment:-	15%
List of Learning Outcomes Assessed:-	1. Give the student an overview of the Web platform. 2. Students will understand the fundamentals of Internet Technology. 4. They will be able to understand the basic Internet services, design and publish simple web sites.

Assessment Name:-	**Midterm Exam-2**
Description of Task Assessment:-	This assessment is aligned to learning outcomes 3, 4, 5 and 6. In that regard, the assignment contains questions that assess: 3) Understanding of the Internet security issues and implement client requirements, 4) Ability to understand the basic Internet services, design and publishing of simple web sites, 5) Learning of client-side web programming and its techniques, 6) Understanding of JavaScript language to be able to program sophisticated client-side validation routines.
Task Assessment Due Week/Date:-	**Week 12**
Return Week/Date to Students:-	Week 13 (Evaluated copies will be shown to students)
Weight of Task Assessment:-	15%
List of Learning Outcomes Assessed:-	3. Understand the Internet security issues and implement client requirements. 4. They will be able to understand the basic Internet services, design and publish simple web sites. 5. To understand the client-side web programming and its techniques. 6. Expand your understanding of JavaScript language to be able to program sophisticated client-side validation routines.

Assessment Name:-	**Quiz-1**
Description of Task Assessment:-	This assessment is aligned to learning outcomes 1. In that regard, the assignment contains questions that assess: 1) Overview of the Web platform and Web Environment.
Task Assessment Due Week/Date:-	**Week 4**
Return Week/Date to Students:-	Week 5 (Evaluated copies will be shown to students)
Weight of Task Assessment:-	2%
List of Learning Outcomes Assessed:-	1. Give the student an overview of the Web platform.

Assessment Name:-	**Quiz-2**
Description of Task Assessment:-	This assessment is aligned to learning outcomes 4. In that regard, the assignment contains questions that assess: 4) Understanding of basic Internet services, design and publishing of simple web sites.
Task Assessment Due Week/Date:-	**Week 9**
Return Week/Date to Students:-	Week 10 (Evaluated copies will be shown to students)
Weight of Task Assessment:-	2%
List of Learning Outcomes Assessed:-	4. They will be able to understand the basic Internet services, design and publish simple web sites.

Assessment Name:-	**Quiz-3**
Description of Task Assessment:-	This assessment is aligned to learning outcomes 6. In that regard, the assignment contains questions that assess: 6) Learning of JavaScript language to be able to program sophisticated client-side validation routines.
Task Assessment Due Week/Date:-	**Week 13**
Return Week/Date to Students:-	Week 14 (Evaluated copies will be shown to students)
Weight of Task Assessment:-	1.5%
List of Learning Outcomes Assessed:-	6. Expand your understanding of JavaScript language to be able to program sophisticated client-side validation routines.

Assessment Name:-	**Assignment-1**
Description of Task Assessment:-	This assignment is aligned to learning outcomes 2. In that regard, the assignment contains questions that assess: 2) Fundamentals of Internet Technology
Task Assessment Due Week/Date:-	**Week 3**
Return Week/Date to Students:-	Week 4 (Evaluated copies will be shown to students)
Weight of Task Assessment:-	1.5%
List of Learning Outcomes Assessed:-	2. Students will understand the fundamentals of Internet Technology

Assessment Name:-	**Assignment-2**
Description of Task Assessment:-	This assignment is aligned to learning outcomes 5. In that regard, the assignment contains questions that assess: 5) Client-side web programming and its techniques.
Task Assessment Due Week/Date:-	**Week 11**
Return Week/Date to Students:-	Week 12 (Evaluated copies will be shown to students)
Weight of Task Assessment:-	1.5%
List of Learning Outcomes Assessed:-	5. To understand the client-side web programming and its techniques.

Assessment Name:-	**Assignment-3**
Description of Task Assessment:-	This assignment is aligned to learning outcomes 7. In that regard, the assignment contains questions that assess: 7) Program and development of moderately complex interactive client side website.
Task Assessment Due Week/Date:-	**Week 14**
Return Week/Date to Students:-	Week 15 (Evaluated copies will be shown to students)
Weight of Task Assessment:-	1.5%
List of Learning Outcomes Assessed:-	7. To be able to program moderately complex interactive client side website.

Assessment Name:-	**Final Exam**
Weight of Task Assessment:-	**40%**
Duration:-	3 Hours

Warning:-	No Calculator Permitted Exam Question Paper will be given to students. Exam will be Closed Books.
List of Learning Outcomes Assessed:-	1. Give the student an overview of the Web platform. 2. Students will understand the fundamentals of Internet Technology 3. Understand the Internet security issues and implement client requirements. 4. They will be able to understand the basic Internet services, design and publish simple web sites. 5. To understand the client-side web programming and its techniques. 6. Expand your understanding of JavaScript language to be able to program sophisticated client-side validation routines. 7. To be able to program moderately complex interactive client side website.